ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

815/987-7760

May 1, 2012

NON-COMPLIANCE ADVISORY LETTER
Certified #7009 3410 0000 7729 6867

Walnut Grove Farms
Attn: Jeff Heinsohn
34695 Kirkland Road
Kirkland, IL 60146

Dear Mr. Heinsohn:

On April 5, 2012, Lee Heeren and Kirk Bergstrom, representing this Agency, conducted an inspection of your dairy facility. The operation is located in Sections 3 and 10 in Franklin Township in DeKalb County. You were contacted at the time of the visit. Based on this visit and a review of our files the following violations of the Illinois Environmental Protection Act (the Act), the Illinois Pollution Control Board Rules and Regulations, Title 35, Subtitle C, Water Pollution, CHAPTER I (Subtitle C) and the Subtitle E: Agricultural Waste Regulations (Subtitle E) were noted.

APPARENT VIOLATIONS

1. Livestock waste from your facility was deposited on the ground in such a manner that a water pollution hazard was created. This is an apparent violation of Sections 12(a) and (d) of the Act.

2. Appropriate livestock waste storage structures were not in place to contain livestock manure at your facility. This is an apparent violation of Section 501.404 of Subtitle E.

3. The contents of a livestock waste handling facility shall be kept at levels such that there is adequate storage capacity so that an overflow does not occur except in the case of precipitation in excess of a 25-year, 24-hour storm. This is an apparent violation of Section 501.404(c)(3) of Subtitle E.

4. The transportation of livestock wastes shall be planned and conducted so as to not cause, threaten, or allow any violation of the Act. This is an apparent violation of Section 501.401(d) of Subtitle E.

Livestock waste has the potential for causing serious environmental problems. Therefore, it is important for livestock producers to familiarize themselves with proper and safe procedures for handling and disposing of livestock waste. The following is a list of some of the regulations that may apply to your operation:

IEPA Act Section 12a: No Person shall Cause or threaten or allow the discharge of any contaminants into the environment in any State so as to cause or tend to cause water pollution in Illinois, either alone or in combination with matter from other sources, or so as to violate regulations or standards adopted by the Pollution Control Board under this Act;

IEPA Act Section 12d: No Person shall deposit any contaminants upon the land in such place and manner so as to create a water pollution hazard.

SUBTITLE E

Subtitle E Section 501.401(d): The transportation of livestock wastes shall be planned and conducted so as not to cause, threaten, or allow any violation of the Act and applicable regulations.

Subtitle E Section 501.404(c)(3): The contents of livestock waste-handling facilities shall be kept at levels such that there is adequate storage capacity so that an overflow does not occur except in the case of precipitation in excess of a 25-year 24-hour storm.

Subtitle E Section 501.404(c)(4)(A): Existing livestock management facilities which handle the waste in a liquid form shall have adequate storage capacity in a liquid manure-holding tank, lagoon, holding pond, or any combination thereof so as not to cause air or water pollution as defined in the Act or applicable regulations. If inadequate storage time causes or threatens to cause a violation of the Act or applicable regulations, the Agency may require that additional storage time be provided. In such cases interim pollution prevention measures may be required by the Agency.

RECOMMENDATIONS

The following is a list of recommendations which are presented for your consideration in dealing with the above mentioned violations:

34695 Kirkland Road Facility:

1. Address the wastewater runoff from the heifer/dry cow feedlot.

2. Address the strength of wastewater discharge to the filter system from the northeast corner of the silage pad.

3. Address the grass filter area north of the heifer/dry cow feedlot that is adjacent to the unnamed tributary.

    a. Follow the design criteria that is contained in the Section 570 regulations concerning the field applciation runoff system.
    b. Construct adequate diking along the tributary to prevent a wastewater discharge from the filter area.

35073 Kirkland Road Facility:

1. Immediately cease any discharges of manure wastewater from the facility. To improve runoff control at the facility consider the following:

    a. Repair eave gutter on livestock shed inside exposed feedlot.

2. Remove concrete debris from filter area that is impeding proper drainage of the filter area.

    a. Seed and re-establish vegetation in the damaged filter area.
    b. Regrade filter area if needed to provide acceptable slope.
    c. Fortify the south berm of the filter area.

Please submit a written response by June 5, 2012, to: Illinois EPA, 4302 North Main Street, Rockford, IL 61103. The written response must include specific remedial actions, including a specified time for achieving each action. If completed, your response must include the date on which the non-compliance situation was eliminated.

This Non-Compliance Advisory is not a violation as specified in Section 31(a)(1) of the Illinois Environmental Protection Act ("Act"), 415 ILCS 5/31(a)(1). However, if you do not adequately respond to this Non-Compliance Advisory, the Illinois EPA may issue a formal violation notice pursuant to Section 31(a)(1) of the Act.

If you have any questions or comments regarding the contents of this letter, please feel free to contact Lee Heeren of my staff, or me, at 815/987-7760.

Sincerely,

Charles E. Corley
Regional Manager
Bureau of Water
Division of Water Pollution Control

CEC:LH:svf

bcc: DWPC/FOS & Records Unit
WPC Section Manager/B. Yurdin
Rockford Region

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

"Rockford Region Agricultural Field Investigation Report"

File: Walnut Grove Farms
County: DeKalb
Date: April 5, 2012
Address: 34695 Kirkland Road (Dairy Facility)
35073 Kirkland Road (Heifer Facility)
Kirkland, IL 60146

Phone: Jeff Heinsohn [redacted] and Manager)
Steve Heinsohn [redacted]
Gilman Heinsohn [redacted]
Jonathan Heinsohn [redacted]

[redacted]

Person Interviewed: Jeff Heinsohn

Receiving Stream: Kingsbury Creek

Legal ID: NW/10/42N/3E/3 (Dairy Facility)
SW/3/42N/3E/3 (Heifer Facility)

Township: Franklin

Weather: Sunny, 40's

INTRODUCTION

This was a compliance inspection. Jeff Heinsohn was contacted the previous day. This inspection was necessary to complete a comprehensive compliance evaluation at both livestock facility locations. Biosecurity measures were met by the use of disposable footwear. Kirk Bergstrom assisted with the inspection visit. Jeff Heinsohn represented the facility and accompanied the entire inspection. The dairy facility was previously inspected by this writer on August 22, 2008 and issued a NCA on September 25, 2008. The issues cited in the NCA resulted from a wastewater discharge to the road ditch at the 35073 Kirkland Road facility. Improvements were made in 2009 to address the compliance issues at that facility location.

FACILITY OBSERVATIONS AND DESCRIPTIONS

34695 Kirkland Road Facility

This is the address location for the milking animals, dry cows, close-up heifers, and newborn calves. Jeff Heinsohn reported approximately 475 milking animals are housed in three different sand bedded freestall barns. The cows are milked three times/day and alleyways are scraped when the animals are removed from the barns during the milking procedure.

The sand laden dairy manure is scraped into a 24-inch flume which is flushed with recycled wastewater from a secondary holding pond. The manure from the flume enters a concrete sand settling pit (Photos #11 and #12) which separates the majority of the sand. The settled sand is removed frequently and stacked on each side of the settling area and allowed to drain back into the structure (Photo #13). After a period of time, the sand is transferred to a concrete pad and allowed to drain further before reusing. Some of the manure portion is captured at the far end of the settling area and stacked in a corner before it is loaded and land applied.

The manure wastewater then enters a 450,000 gallon primary holding pond which allows further settling of the sand and manure (Photos #19 and #24). A 36-inch culvert allows the primary holding pond to overflow into a larger 2 MG secondary holding pond. Wastewater from the secondary pond is pumped up to the freestall barns by use of a floating pump. The pump transfers 2000 gallons of recycled water per minute through underground piping to the freestall barn manure flume.

Excess manure wastewater in either the primary or secondary holding ponds is transferred periodically into one of the two 625,000 gallon Slurrystores or land applied through a drag hose application system owned by the dairy facility.

Feed storage is accomplished by stacking silage on a large concrete pad (220 ft x 250 ft). The majority of the leachate from the silage pad drains west toward a grass filter strip located adjacent to Kingsbury Creek. The strip was reported by Jeff Heinsohn to be 80-150 ft wide x 1000 ft in length. An earthen berm extends adjacent to the creek, approximately 12 inches in height, which protects a discharge from entering the creek. No channelization was observed in the filter area.

This particular filter area also receives wastewater via a subsurface tile, from the calf hutch area and also a depressed low area between the two Slurrystore structures.

The east portion of the silage slab drains east to a different grass filter area located north of the dry cow/heifer feedlot (Photos #30, #32, and #41). There was some channelization that was observed in this filter area. The filter also receives a manure discharge from the dry cow/heifer feedlot. An unnamed tributary flows adjacent to the filter area. This tributary empties into Kingsbury Creek a short distance to the west. The channelization in the filter area led to an unprotected area (without berm) measuring approximately 75 feet that would allow wastewater to potentially enter the tributary (Photos #42-#44, and #48).

The Slurrystores are emptied each spring and fall by use of a 1-1/4 mile drag hose injection applicator. The nearest neighbor resides 1/4 mile northeast of the dairy. No odor complaints have been received by the dairy or our Agency.

Soil tests are completed every 3-4 years on all 550 acres of cropland. A CNMP was completed in 2001-02 by Carrie Pollard of Sycamore, Illinois. The CNMP was not available for review at the time of this inspection.

Manure applications are mapped by GPS and entered into a software program. Application rates were reported at 18,500 gallons/acre. A flow meter is used to monitor the application rate. Manure is applied to cropland on a two year rotation.

Approximately 4500 tons (250 acres) of corn silage is harvested each year and stored on the concrete slab. Haylage from 130 acres is also chopped and piled on the slab. Sixty acres of wheat allows for some available land to apply manure to during the summer months.

Mortality is disposed of through a local rendering service.

Heinsohn reported the dairy is utilizing twelve full-time employees including the family.

Two wells supply water for the milking facility Exemption 6 and Exemption 7(C) [redacted]

35073 Kirkland Road Facility

This facility serves home to approximately 150-200 dairy heifer calves weighing between 200-600 lbs. One large bedpack barn serves as housing for the dairy animals. A damaged eave gutter allows most of the roof storm water to enter the feedlot area. The feedlot discharges to the southeast corner through a gateway to a recently constructed concrete swale which channels the wastewater into a vegetative filter area. (This was the improvement that addressed the 2008 NCA.)

A large plastic silage bag was observed on the south side of the feedlot that also drained into the concrete swale and ultimately into the filter area.

The filter area was accumulating wastewater. Jeff Heinsohn reported that some salvage concrete feedbunks were unfortunately placed in some of the filter that prevented proper drainage. Heinsohn said that the debris would be removed this summer and vegetation re-established. A vegetated berm prevented the filter area from discharging to the McNeal Road ditch on the downhill side.

No compliance issues were observed at this facility location.

SUMMARY

Jeff Heinsohn was briefed on the inspection observations at both facility locations.

The milking facility located at 34695 Kirkland Road appeared satisfactory except for the filter area located north of the dry cow/heifer feedlot. Silage leachate and feedlot manure discharged into this filter area that was experiencing channelization toward an area that appeared would enter the unnamed tributary. The stronger silage leachate runoff should be directed toward the manure storage area. The feedlot discharge could be addressed a number of ways. Heinsohn was advised to seek a professional engineer for assistance toward addressing those areas of concern.

Heinsohn was told to expect a letter from our Agency confirming the visit and outlining the compliance issues that were discussed during the inspection. A written response will be requested within a month after receiving the letter. An expected completion date is needed for each compliance improvement.

Heinsohn was also asked to remove the concrete debris from the filter area at the 35073 Kirkland Road facility location and repair the vegetation damage that the ponded wastewater may have created. An engineer should evaluate the filter area at that location for optimum performance.

Wastewater samples B-10 and B-11 were collected at two separate locations in the filter area at the 34695 Kirkland Road facility.

The inspection adjourned at approximately 12:45 PM.

Lee Heeren, Ag Specialist

LH/svf

Attachments:

Map
Photos
Sample results

cc: DWPC/FOS and Records Unit
Rockford Region

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Livestock Facility Inspection Checklist

GENERAL INFORMATION

TYPE OF INSPECTION:
☒ CAFO ☐ COMPLAINT ☐ RECONNAISSANCE ☐ ERU FOLLOW UP ☐ OPERATOR REQUEST ☐ OTHER

FACILITY NAME (LLC, Inc., Corp, Partnership, sole proprietorship, etc.)	INSPECTION DATE	ARRIVAL TIME
Walnut Grove Farms	**4-5-12**	**9:30 AM**

ADDRESS	INSPECTOR(s)	DEPARTURE TIME
34695 Kirkland Road	**L. Heeren/K. Bergstrom**	**12:45 PM**

CITY	STATE	ZIP CODE	ACCOMPANIED BY (if applicable)
Kirkland	**IL**	**60146**	

COUNTY	SECTION	TOWNSHIP	RANGE	POLITICAL TOWNSHIP	TEMPERATURE	PRECIPITATION TYPE
DeKalb	**3, 10**	**42N**	**3E**	**Franklin**	**50's**	**Sunny, moist**

	NAME	CONTACTED	PHONE	MOBILE
Facility Owner(s): Exemption 6 and Exemption 7(C)	**Jeff Heinsohn**	☒ YES ☐ NO		Exemption 6 and Exemption 7(C)
	ADDRESS	CITY	STATE	ZIP CODE
	NAME	CONTACTED	PHONE	MOBILE
	Steve Heinsohn	☐ YES ☒ NO		Exemption 6 and Exemption 7(C)
	ADDRESS	CITY	STATE	ZIP CODE
Facility Operator(s): Exemption 6 and Exemption 7(C)	NAME	CONTACTED	PHONE	MOBILE
	Gilman Heinsohn	☐ YES ☒ NO		Exemption 6 and Exemption 7(C)
	ADDRESS	CITY	STATE	ZIP CODE
	NAME	CONTACTED	PHONE	MOBILE
	Jonathan Heinsohn	☐ YES ☒ NO		Exemption 6 and Exemption 7(C)
	ADDRESS	CITY	STATE	ZIP CODE

NPDES PERMIT INFORMATION (If no NPDES Permit, skip this section)

1. What type of NPDES permit has been issued? ☐ Individual NPDES Permit ☐ General NPDES Permit	NPDES #	
2. What date was the NPDES permit issued?		
3. What date does the NPDES permit expire?		
4. Is a copy of the NPDES permit onsite?	☐ YES	☐ NO
5. Permitted number of animals (no. & specie)?		
6. Does the NPDES Permit contain a compliance schedule?	☐ YES	☐ NO
7. Have there been any changes made to the production area since the permit was issued?	☐ YES	☐ NO

If "YES", provide a detailed description of those changes.

None

LAND APPLICATION/NUTRIENT MANAGEMENT		
1. How many TOTAL acres are available for land application? **550** acres		
2. How many acres are READILY available for land application at the time of inspection? **550** acres		
3. Estimated annual quantities of liquid waste _____ gallons		
4. Estimated annual quantities of solid waste _____ tons		
5. Does the facility have a contractor perform land application? If "YES", Name of Contractor: _____	☐ YES	☒ NO
6. What type of land application equipment is available to the facility? ☒ Umbilical Injection ☐ Honeywagon Injection ☐ Honeywagon Surface ☐ Irrigation ☐ Rotational Gun ☒ Manure Spreader ☐ Vegetative Filter ☐ Other _____		
7. Does the facility calibrate the land application equipment? If "YES", What method is used? **Flow meter**	☒ YES	☐ NO
8. Does the facility land apply within the 150 foot setback from any water well? If "YES", Explain	☒ YES	☐ NO
9. Does the facility land apply within the 200 foot setback from any surface water? If "YES", Explain	☒ YES	☐ NO
10. Does the facility land apply near any residences? If "YES", Explain **<1/4 mile, but injects**	☒ YES	☐ NO
11. Is livestock waste transferred off-site to another party? If "YES", Are records of manure transfers kept? If "YES", Ask to see records	☐ YES ☐ YES	☒ NO ☐ NO
12. Does the facility have a current NMP or CNMP? If "YES", Does the facility maintain a copy of the nutrient management plan (NMP) onsite?	☒ YES ☐ YES	☐ NO ☐ NO
13. Does the NMP reflect the current operational characteristics (number of animals, cropping, etc.)?	☐ YES	☐ NO
14. Are the number of acres owned/leased consistent with those in the NMP?	☐ YES	☐ NO
15. Is manure and wastewater being applied in accordance with setback/buffer requirements of the NMP?	☒ YES	☐ NO
16. Are all of the records identified in the NMP being maintained and kept current?	☐ YES	☒ NO
17. Are records being maintained at the required frequency?	☐ YES	☐ NO
18. Are records being maintained onsite for the period required by NMP and/or NPDES permit?	☐ YES	☐ NO
19. Is the NMP adequately addressing the storage, handling and application of manure and wastewater to prevent discharges to waters of the U.S.?	☐ YES	☐ NO

LIVESTOCK FACILITY DESCRIPTION

Type of Animals	Number of Animals (currently)	Animal Capacity	Type of Confinement	Number of Structures
DAIRY MILKING	**475**		**OPEN CONFINEMENT BUILDING**	**3**
DAIRY DRY	**45**		**OPEN CONCRETE FEEDLOT**	**1**
CALVES	**100**		**OPEN CONCRETE FEEDLOT**	**3**

Does the facility have an Illinois Certified Livestock Manager (300 or greater animal units)?	☐ N/A	☒ YES	☐ NO
If greater than 1000 animal units but less than 5000 animal units, does the facility have a waste management plan?	☐ N/A	☐ YES	☐ NO
If greater than 5000 animal units, has the facility submitted a waste management plan to IDOA for review?	☐ N/A	☐ YES	☐ NO
Does the facility have any other locations under common ownership, or where equipment and/or manure is shared, or where the other site shares land application sites? If so, put names and addresses below. **35073 Kirkland Road**		☐ YES	☐ NO

LIVESTOCK WASTE STORAGE

1. Does the facility have any existing livestock waste containment system? ☒ YES ☐ NO
   If NO, then proceed to question 10.

2. General description of the waste containment system (include solid and liquid manure handling, mortality, and feed storage areas).
   2 - 625,000 gallon Slurrystores
   1 - concrete sand settling basin
   2 - wastewater holding ponds (2 MG and 450K)
   3 - concrete stacking pads
   2 - vegetative filter systems

Type of Storage	Total Storage Capacity (Specify Units)
☐ Anaerobic Lagoon	
☐ Covered Lagoon	
☐ Holding Pond	
☐ Above Ground Storage Tank ("Slurrystore")	
☐ Below Ground Storage Tank	
☐ Settling Basin	
☐ Roofed Storage Shed	
☐ Concrete Pad	
☐ Impervious Soil Pad	
☐ Underfloor Pits	
☐ Anaerobic Digester	
☐ Manure Stacks	
☐ Vegetative Filter	
☐ Other _____	
☐ None	

3. Do the storage structures have depth markers or staff gauges? ☐ YES ☒ NO

4. Are levels of manure in the storage structures recorded and records kept? ☐ YES ☒ NO

5. Do the storage structures have adequate freeboard? ☒ YES ☐ NO

6. Estimated final stage storage structure freeboard _____ in. of total depth _____ in.

7. Do facility personnel perform routine visual inspections of the storage structures? ☒ YES ☐ NO

8. Are the routine visual inspections documented? ☐ YES ☒ NO

9. Does the system have an outfall or discharge point? ☐ YES ☒ NO

If "YES", please provide a description (overflow pipe, spill way, etc. Include a description the area receiving the discharge).
None

10. Are there any portions of the production area where runoff is not controlled? ☒ YES ☐ NO

If "YES", provide a detailed description of the area(s) of concern:
NE filter bed was channelized and had potential for discharge to unnamed tributary.

MORTALITIES MANAGEMENT

1. How are mortalities managed? (Composted, buried, burned, rendering service, other)
Rendering service

2. Are mortalities documented and are records kept? ☒ YES ☐ NO

FACILITY WATER SOURCES

1. What type of method is used to provide drinking water for the animals?

   ☒ Overflow waters ☐ Tip Tanks ☐ Nipple waters ☐ Water Bowls ☐ Other _____

2. How is the water for animals obtained?

   ☐ Community PWS ☒ On-Site Well ☐ On-Site Impoundment ☐ Other _____

3. Is a mist cooling system used? ☒ YES ☐ NO

   How is mist water contained?

   None

DAIRY OPERATION (If No Dairy, skip this section)

1. How many times per day are cows milked? **3**

2. Describe how the dairy's non-contact cooling water is contained (Example: it is reused for drinking water for the animals).

   Cooling - drinking

   Plate cooler to cows

3. Describe how the milking parlor is cleaned (hose or flush) and where the process wastewater goes and how it is contained.

   Washdown wastewater flows to first stage lagoon

4. Describe how the tank(s) are washed and where the process wastewater goes and how it is contained.

   Washdown wastewater flows to first stage lagoon

5. Describe where process wastewater from the plate cooler goes and how it is contained.

   Goes to freestall barn waters for cows to drink

BEDDING (If No Bedding, skip this section)

1. Describe what type of bedding is used for the animals.

   Cornstalks and wheat straw for young stock

2. Describe how bedding is collected and how often.

   Exposed feedlots scraped 2 times/week; freestalls are scraped 3 times/day

3. What is done with the used bedding? ☐ Reused ☒ Land Applied

MANURE COLLECTION

1. How is manure collected?

- ☐ Under Floor Pit
- ☒ Scraped: ☐ Automatic ☒ Manual
- ☐ Flush
- ☐ Solids Separator
- ☐ Other: _____
- ☐ None

2. If manure collection system uses either clean or reused water to flush, describe where this water goes and how it is contained.

Recycled water from secondary holding pond is flushed to freestall manure flumes.

FEED STORAGE CONTAINMENT

1. Describe how feed (silage, hay, etc) is contained.

- ☐ Bulk Bins
- ☐ Silage Pit
- ☐ Ag Bags
- ☐ Hay: ☐ Barn ☐ Outdoor
- ☒ Other: **concrete pad**

2. Describe how feed (silage, hay, etc) runoff is contained.

- ☐ Not Applicable – Feed totally enclosed
- ☒ Other: **vegetative filter area**
- ☐ None

RECEIVING SURFACE WATERS

1. Provide a description of the flow path from the facility to the nearest named surface water.

An unnamed tributary flows on north side of facility and empties into Kingsbury Creek approximately 1/8 mile west.

2. What is the name of the receiving stream?

Kingsbury Creek

3. Status of the named surface water: ☐ Intermittent ☒ Perennial

4. Are any unnatural bottom deposits observed in the receiving stream: ☐ YES ☒ NO

If "YES", provide a description of the deposits: **None**

DISCHARGES		
1. Have there been any documented discharges of livestock waste to surface water ***in the past year***? If "NO" proceed to question 2.	☐ YES	☒ NO
a. If "YES", specify the date(s). _____		
b. What was the reason for the discharge?		
c. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☐ NO
d. What was the precipitation amount? *(if applicable)*		
e. Was IEMA notified of the discharge?	☐ YES	☐ NO
f. Has the facility taken corrective action to remedy the situation which caused the discharge(s)?	☐ YES	☐ NO
If "YES", describe actions taken: **None**		
2. Is the facility currently discharging livestock waste from the production area? If "NO" proceed to next section.	☐ YES	☐ NO
a. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☐ NO
b. What was the precipitation amount? *(if applicable)*		
c. What is the reason for the discharge?		
d. Were water quality samples taken?	☒ YES	☐ NO
e. If "YES", how many? **2 - B-10; B-11**		
f. What parameter(s) tested? ☒ pH ☒ Ammonia ☐ Nitrate ☒ Nitrite ☒ Phosphorus ☒ BOD_5 ☒ Total Susp Solids ☐ Fecal ☐ Diss O_2 ☐ Other _____		

BIOSECURITY – Inspection Activities			
1. Were biosecurity measures discussed with the facility prior to inspection?		☒ YES	☐ NO
2. Has there been 24-hours downtime between inspections for all IEPA personnel present?		☒ YES	☐ NO
3. Was the order of inspection conducted from high risk to low risk?	☐ N/A	☒ YES	☐ NO
4. Did all personnel stay outside livestock management and livestock waste handling facilities as defined in 35 IAC 501.285 and 35 IAC 501.300? If "YES" skip to question 7.		☐ YES	☒ NO
BIOSECURITY – Personal Protection Equipment			
5. Was sanitary footwear donned prior to entering the livestock management/waste handling facility(s)?	☐ N/A Did not Enter	☒ YES	☐ NO
6. Were disposable coveralls donned prior to entering the livestock management/waste handling facility(s)?	☐ N/A Did not Enter	☐ YES	☒ NO
7. Was sanitary footwear used during the inspection?		☒ YES	☐ NO
8. Was disposable sanitary outerwear disposed at the facility?		☐ YES	☒ NO

BIOSECURITY – Vehicle			
9. Was the vehicle parking location discussed with the facility prior to inspection?		☒ YES	☐ NO
10. Was the vehicle washed since the inspection prior to current? If "YES" skip to question 12.		☒ YES	☐ NO
11. Was the vehicle parked >300-feet from the livestock management/waste handling facility? Explain where vehicle was parked: **At shop near entrance**	☐ N/A	☐ YES	☒ NO
12. Was IEPA vehicle used on site?		☐ YES	☒ NO
13. Was facility vehicle used on site?		☐ YES	☒ NO
BIOSECURITY – Inspection Equipment			
14. Was all equipment wiped down with anti-bacterial wipes?		☐ YES	☒ NO
15. Was sample cooler kept inside vehicle during inspection? If "YES" skip question 16.		☐ YES	☒ NO
16. Was sample cooler wiped down with antibacterial wipes before placing back into vehicle?	☐ N/A	☐ YES	☒ NO

OTHER COMMENTS/NOTES

See attached narrative and accompanying inspection photos.

Check all attachments: ☒ Narrative ☒ Photos ☐ Site Plan ☐ Sample Results

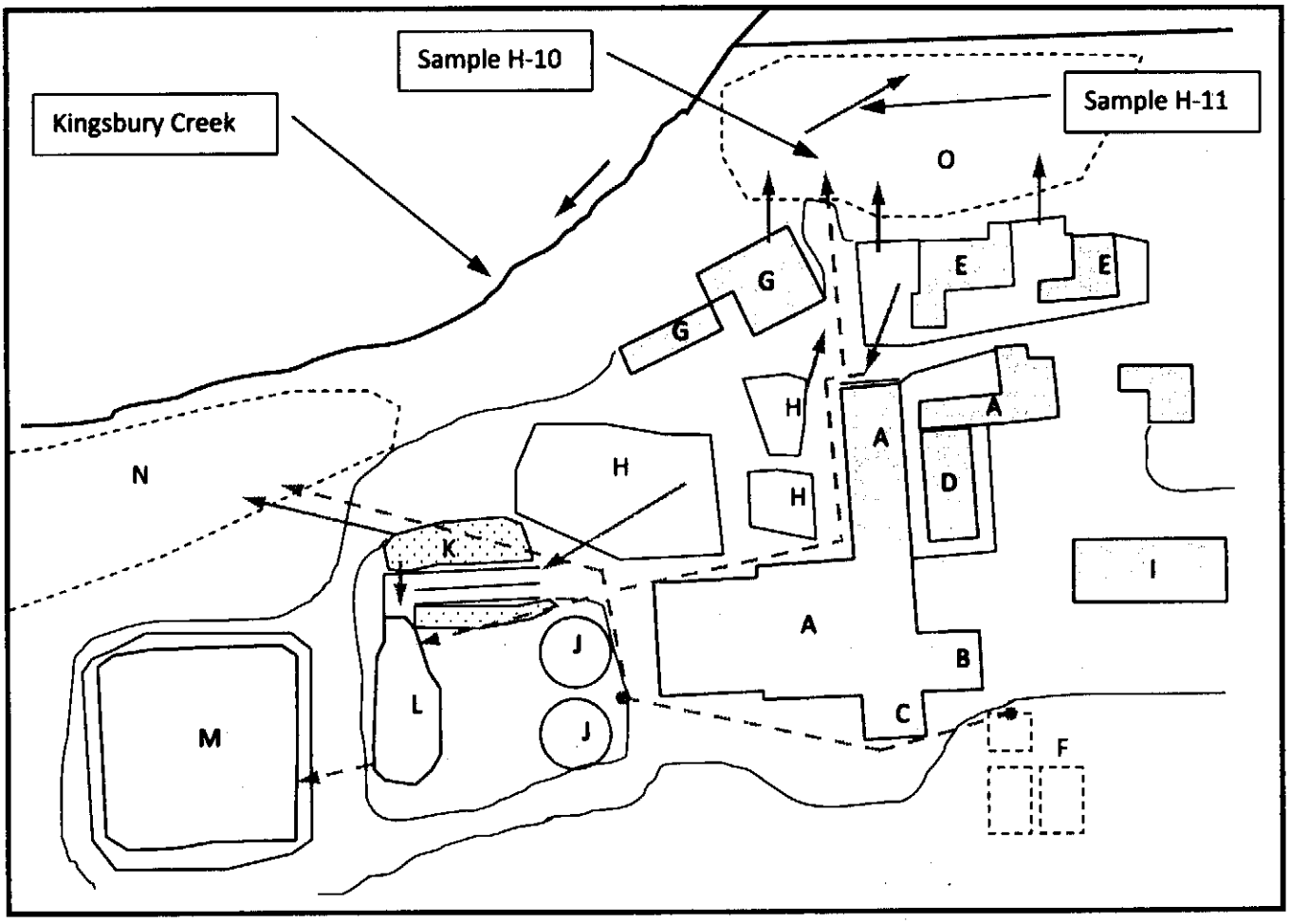
INSPECTOR'S SIGNATURE	REPORT DATE
Lee Heeren	**4-5-12**

Cc: BOW/DWPC/RU

Attachments:_____

Exemption 6 and Exemption 7(C)

Heinsohn Dairy – 34695 Kirkland Rd, Kirkland – 4/5/2012 Inspection



Map Point	Description
A	Freestall Barns
B	Milking Parlor – milkhouse wastewater flows to primary lagoon (L)
C	Hospital Barn
D	Dry Cows
E	Young Stock loose housing and feedlots
F	Calf hutches – runoff from this area enters tile and flows to NW filter strip (N)
G	Commodity storage area and feed loading bay – runoff from this area flows to the NE filter strip (O)
H	Silage and haylage pads – most runoff flows to sand lanes and then primary lagoon (L) – some runoff from NE haylage area flows to NE filter strip (O) – some runoff from W side of pad may flow to the NW filter strip
I	Shop
J	Two 625,000-gallon Slurrystores – liquid waste from secondary lagoon (M) is pumped to Slurrystores
K	Sand lanes and sand stacking area – Freestall flumes are flushed to E end of lanes and wastewater flows to primary lagoon (L)
L	0.45 MG primary lagoon
M	2.0 MG secondary lagoon with 2000 gpm floating pump that flushes freestall flumes hourly
N	NW filter strip – approx 1000 ft by 100 ft with flow to WSW and then to Kingsbury Creek
O	NE filter strip – approx 250 ft by 200 ft with flow to NE and then to unnamed tributary to Kingsbury Creek

H-10

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.:

09-Funding Code: WPD 2 10-Agency Routing RK 12-File Code: AGRI 13-Sample Type: X

15-Reporting: B 16-DID: Basin ____ County 037 Plant ____ 17-Sampling Program: AG

18-Facility/Sample Pt: WALNUT GROVE FARM Heifer Feedlot Pooling

19-Begin Date: Y Y M M D D 120405 20-Begin (24 hr.clock) H H M M 1300

23-Instructions to Lab: 21-Collected by: LEH 22-Transported by: UPS

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	501F0 Air Temp (°C)	
	502F0 Water Temp (°C)	
SD20241	504F0 Dissolved O_2	
	503F0 Conductance	
	500F0 pH	

RECEIVED
MAY 04 2012
ROCKFORD REGIONAL OFFICE
ENVIRONMENTAL PROTECTION AGENCY
STATE OF ILLINOIS

27-Received By: Date: Y Y M M D D

Received by: Date: Y Y M M D D

Circle One: Effluent Stream Influent Process Flows Sludge Cooling Water Specials: WWTP Other

Program:

NPDES No:

Receiving Stream Name: Kingbury Creek

Receiving Stream Conditions (velocity,etc):

Effluent Conditions: dark color, Livestock odor.

Weather Conditions: Sunny, ~~60's~~ 50's.

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Contains some silage leachate runoff

Remarks: Sample from silage pad & heifer feedlot accumulation

Sampling Techniques: grab

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. 3

Sample Received By: EMB

Date Received: APR 06 2012

Time Received: 0930 AM PM

Lab Section:

Supervisor: 5/1/12

IL 532-1575

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**WALNUT GROVE FARM**		
Project/Facility Number:	HEIFER FEEDLOT PO	Date Received :	04/06/12
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	3.00
Client Sample ID:	**H-10**	Lab Sample ID:	**SD20241-01**
Matrix:	Water	Collected By: LEH	Date/Time Collected: 04/05/12 13:00
Sample Type:	Grab	Sample Depth:	Total Depth: 0

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/06/12 07:00
Units:	mg/L	Analyzed:	04/11/12 07:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**2850**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/12/12 13:16
Units:	mg/L	Analyzed:	04/12/12 14:56

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrat	**0.365**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/16/12 15:50
Units:	mg/L	Analyzed:	04/16/12 15:50

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**183**		10.0	

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Reported:
05/01/12 10:11

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**WALNUT GROVE FARM**		
Project/Facility Number:	HEIFER FEEDLOT PO	Date Received :	04/06/12
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	3.00
Client Sample ID:	**H-10**	Lab Sample ID:	**SD20241-01**
Matrix:	Water	Collected By: LEH	Date/Time Collected: 04/05/12 13:00
Sample Type:	Grab	Sample Depth:	Total Depth: 0

pH

Method:	150.1	Prepared:	04/06/12 10:37
Units:	PH	Analyzed:	04/06/12 10:37

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.0**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/10/12 11:07
Units:	mg/L	Analyzed:	04/11/12 13:32

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**44.2**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/12/12 08:50
Units:	mg/L	Analyzed:	04/12/12 11:12

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**440**		4	

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Reported:
05/01/12 10:11

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**WALNUT GROVE FARM**		
Project/Facility Number:	HEIFER FEEDLOT PO	Date Received :	04/06/12
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	3.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

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Reported:
05/01/12 10:11

H-11

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.:

09-Funding Code: WP0 10-Agency Routing RK 12-File Code: 46RI 13-Sample Type: X

15-Reporting: B 16-DID: Basin ____ County 037 Plant ____ 17-Sampling Program: Ag

18-Facility/Sample Pt: WALNUT GROVE FARM

19-Begin Date: 120405 (Y Y M M D D) 20-Begin: 1310 (H H M M, 24 hr.clock)

23-Instructions to Lab: ____ 21-Collected by: LEH 22-Transported by: UPS

Composite Sample Ending Date: 52 9 F0 (Y Y M M D)

Ending Time: 52 9 F0 (H H M M, 24-hr.clock)

03-Lab Parameter Group: EFE05

Additional Lab Parameters	Field Parameters	Results
	501F0 Air Temp (°C)	
SD20242	502F0 Water Temp (°C)	
	504F0 Dissolved O_2	
	503F0 Conductance	
	500F0 pH	

RECEIVED
MAY 04 2012
ROCKFORD REGION
ENVIRONMENTAL PROTECTION
AGENCY STATE OF ILLINOIS

27-Received By: ____ Date: (Y Y M M D D)

Received by: ____ Date: (Y Y M M D D)

Circle One: Effluent Influent Sludge Stream Process Flows Cooling Water Specials WWTP Other

Program: ____

NPDES No: ____

Receiving Stream Name: Kingbury Creek

Receiving Stream Conditions (velocity,etc)

Effluent Conditions:

Weather Conditions: Sunny, 50s

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

(contains (some silage leachate runoff)

Remarks: Sample taken in channelization drain in vegetative filter area leading to unnamed tributary

Sampling Techniques: grab

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. 3

Sample Received By: EMB

Date Received: APR 06 2012

Time Received: 0930 AM ____ PM

Lab Section: ____

Supervisor: 5/3/12

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**WALNUT GROVE FARM**		
Project/Facility Number:	[none]	Date Received :	04/06/12
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	3.00
Client Sample ID:	**H-11**	Lab Sample ID:	**SD20242-01**
Matrix:	Water	Collected By: LEH	Date/Time Collected: 04/05/12 13:10
Sample Type:	Grab	Sample Depth:	Total Depth: 0

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/06/12 07:00
Units:	mg/L	Analyzed:	04/11/12 07:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**238**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/12/12 13:16
Units:	mg/L	Analyzed:	04/12/12 14:57

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrat	**0.241**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/16/12 15:50
Units:	mg/L	Analyzed:	04/16/12 15:50

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**55.0**		1.00	

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Reported:
05/01/12 10:11

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**WALNUT GROVE FARM**		
Project/Facility Number:	[none]	Date Received :	04/06/12
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	3.00
Client Sample ID:	**H-11**	Lab Sample ID:	**SD20242-01**
Matrix:	Water	Collected By: LEH	Date/Time Collected: 04/05/12 13:10
Sample Type:	Grab	Sample Depth:	Total Depth: 0

pH

Method:	150.1	Prepared:	04/06/12 10:37
Units:	PH	Analyzed:	04/06/12 10:37

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.2**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/10/12 11:07
Units:	mg/L	Analyzed:	04/11/12 13:33

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**52.4**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/12/12 08:50
Units:	mg/L	Analyzed:	04/12/12 11:12

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**732**		4	

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Reported:
05/01/12 10:11

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**WALNUT GROVE FARM**		
Project/Facility Number:	[none]	Date Received :	04/06/12
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	3.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

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Reported:
05/01/12 10:11